

FULL HD-TVI(1080P) IR DOME CAMERA SK-D300IR(D)/HT22AI MANUAL



PRECAUTION

1. Do not install the camera outdoors.
2. Choose an ideal location for the camera, since a camera unit must be protected against moisture and vibration.
3. Be careful not to scratch the camera unit, especially lens or dome cover.
4. Use the camera within the temperature($-45^{\circ}\text{C}\sim 50^{\circ}\text{C}$).
5. Handle with care. Dropping it can cause serious damage to the camera.
6. Avoid any direct sun light toward the lens.
7. Use the AC adaptor 12V DC, 0.5A regulated. Dual voltage product can use 24V AC adaptor(option)



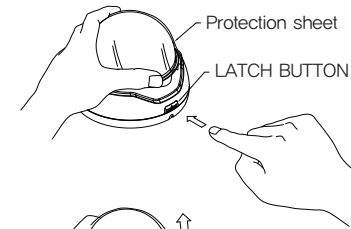
If the product is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.

FEATURES

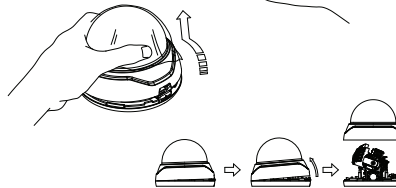
1. 1/2.7" CMOS sensor
2. Full HD-TVI (1920x1080) Resolution
3. DAY & NIGHT Function
4. 2D DNR Function
5. Privacy mask function 2 area
6. On Screen Display menu
7. Intelligent motion detection 1 area
8. Output : HD-TVI (1080P)
9. This camera is incredibly flexible to install with its 3-axis camera construction, which makes the camera ceiling, wall or slope mountable
10. 20M range visible in total darkness with 24pcs od IR LEDs.(Indoor)
11. Up to 500M Full HD-TVI Transmission via Coaxial Cable. (Maximum transmission distance may vary with type of Coaxial Cable)

HOW TO INSTALL

1. Opening the dome
: Pushing the latch button.(Remove the protection sheet after installing.)

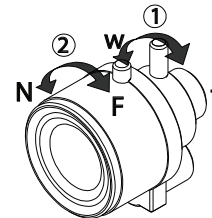


2. Removing the dome
: Lift the dome. When you push the latch button, it is unlocked and you can lift the dome.

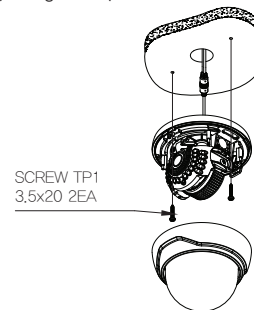


3. Camera installation :

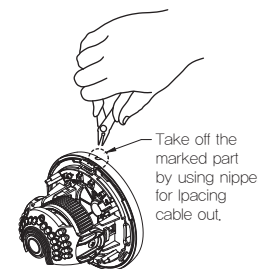
- (1) Fix the camera set with the supplied screws on ceiling or wall mount. If you don't use supplied screws, the camera may fall off.
- (2) Please refer to '4. Camera angle adjustment' regarding adjust camera angle.
- (3) Lens adjustment(Vari-focal Lens only)
After opening the LED cover,
① By turning the "Tele-Wide" knob, you can access a range of focal lengths within specified limits.
② Since then, by turning the "Near-Far" knob, you can set the focus toward the wanted object.
- (4) Re-assemble the camera.



(Ceiling mount)

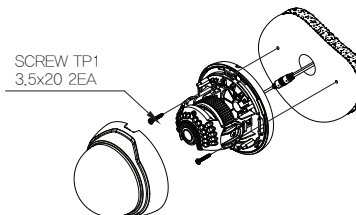


SCREW TP1
3.5x20 2EA



Take off the marked part by using nipper for lacing cable out.

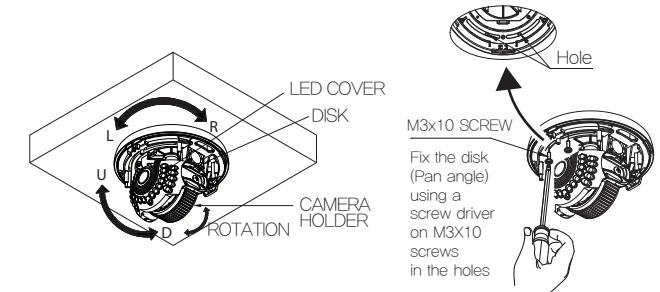
(Wall mount)



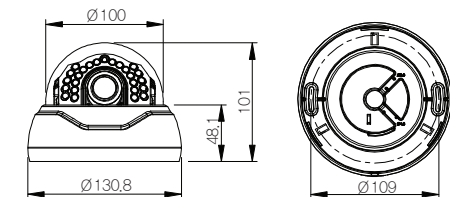
SCREW TP1
3.5x20 2EA

4. Camera angle adjustment :

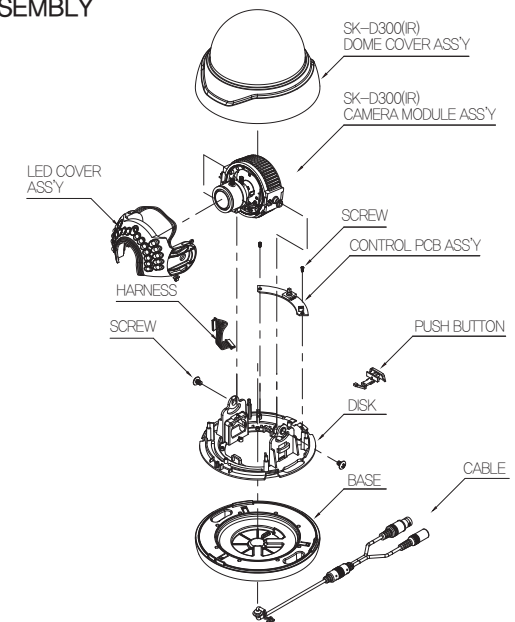
- (1) Pan adjustment : Grasp the disk of camera and then adjust direction to the right or left($-180^{\circ}\sim 180^{\circ}$)
 - (2) Tilt adjustment : Grasp the lens cover of camera and then adjust direction to the up or down($6^{\circ}\sim 90^{\circ}$)
 - (3) Roll adjustment : Grasp the camera holder and then rotate ($-178^{\circ}\sim 178^{\circ}$)
- (Caution) If you try to adjust the camera out of limited angle, it might cause troubles and damage to camera.



DIMENSION



ASSEMBLY

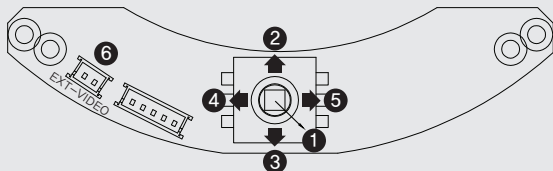


① CAMERA / STRUCTURE SPECIFICATION

Model No.	SK-D300IR/HT22AI	SK-D300IR(D)/HT22AI
Image Device	1/2.7" 2.1Megapixel CMOS Sensor	
Scanning System	Progressive Scan	
Active Pixel	1930(H) x 1088(V) Pixel	
S/N Ratio	39.9dB or More	
Video Output Mode	HD-TVI 1080P(1920 x 1080) 30fps/25fps	
Video Output Level	HD-TVI / 1.0VP-P(75Ω, Composite), NTSC/PAL	
Min. Illumination	0 Lux(LED ON), 0.5Lux(LED OFF)	
Shutter Speed	Auto / 1/25~1/10000	
White Balance	AUTO / USER / PUSH / 8000K ~3200K / HOLD	
Backlight	ON / OFF	
HLC	ON / OFF	
AGC	ON / OFF	
Day & Night	AUTO(ICR)	
2DNR	AUTO	
Privacy Zone	ON / OFF(2 Zone Selectable)	
Motion Detection	ON / OFF(1 Zone Selectable)	
Mirror	OFF / H / V / HV	
IR Led	IR LED 24pcs	
Lens	Vari focal lens	
Power Supply	Regulated 12V DC+/-10%	12V DC/24V AC Dual voltage
Current Consumption	Max. 300mA (at 12V DC)	
Operation Temp.	-45℃ ~ 50℃	
Dimension	ø130.8 x 101(H) mm	
Weight	Approx. 500g	

① FUNCTION SETTING

1. How to use the jog lever



- ①SET : Used to access the menu and confirm selection.
 ②UP, ③DOWN : Used to move the cursor to up or down.
 ④LEFT, ⑤RIGHT : Used to move the cursor to left or right and change the value.
 ⑥EXT-VIDEO : Extra video output terminal for installation. Plug your test monitor in hear. The cable is option.

2. OSD menu structure

Function setting menu	Sub menu	Summary	
1. VIDEO OUT	FRAME RATE	Set the NTSC 30fps or PAL 25fps.	
	RETURN	More back to previous menu.	
2. DAY/NIGHT	MODE	Set the Day & Night mode. (AUTO/EXT/COLOR/BW)	
	D TO N	Set the brightness of illumination about changeing the day → night mode by CDS sensor.	
	N TO D	Set the brightness of illumination about changeing the night → day mode by CDS sensor.	
	DELAY TIME	Set the duration time, (1~60)	
	RETURN	More back to previous menu.	
3. AWB	MODE	Set the AWB mode. (AUTO/USER/PUSH/8000K~3200K/HOLD)	
	R-G GAIN	Adjust R-G gain value.	
	B-G GAIN	Adjust B-G gain value.	
	RETURN	More back to previous menu.	
4. AE	MODE	Set the AE mode. (ESC/DC/HOLD)	
	BRIGHT	set the Bright with manual iris lens.	
	SHUTTER	Set the Shutter mode. (AUTO, 1/25~1/10000)	
	FLICKER	Set the Flicker mode. (OFF/50HZ/60HZ)	
	BLC	Set the BLC mode. (0~16)	
	AGC	Set the AGC mode. (1~5)	
	LSC	Set the LSC mode. (OFF/ON)	
	RETURN	More back to previous menu.	
5. SPECIAL	AREA SEL.	Set the Area number. (AREA1/AREA2)	
	MASK PAT.	Set the Mask pat. (OFF/BLACK/GRAY/WHITE)	
	SX	Set the Start-X.	
	EX	Set the End-X.	
	SY	Set the Start-Y.	
	EY	Set the End-Y.	

Function setting menu	Sub menu	Summary	
5. SPECIAL	MOTION	MOTION	Set the Motion mode. (OFF/ON)
		SENSITI.	Set the Sensitivity mode.
		ALARM	Set the Sensitivity mode. (OFF/TRACE/ICON)
		HOLD TIME	Set the Sensitivity mode. (1~10)
	HLC	HLC	Set the HLC mode. (OFF/ON)
		MASK VALUE	Set the Mask value mode.
		THRESHOLD	Set the Threshold mode.
	RETURN	More back to previous menu.	
6. EFFECT	COLOR GAIN	Set the Color gain mode.	
	COLOR HUE	Set the Color hue gain mode.	
	SHARPNESS	Set the Sharpness mode.	
	CONTRAST	Set the Cotrast mode.	
	BRIGHT OFF	Set the Bright off mode.	
	MIRROR	Set the Mirror mode. (OFF/ON)	
	FLIP	Set the Flip mode. (OFF/ON)	
	RETURN	More back to previous menu.	
7. SYSTEM	CAMERA ID	Set the Camera ID mode.	
	ID DISP.	Set the ID display mode. (OFF/ON)	
	NAME DISP.	Set the Name display mode. (OFF/ON)	
	LANGUAGE	Set the language. (ENGLISH/CHINESE)	
	FACTORY INIT	Reset your camera to factory default condition.	
	RETURN	More back to previous menu.	
8. EXIT	SAVE/EXIT	Save the value and exit menu.	
	EXIT	Exit the OSD menu.	
	RETURN	More back to previous menu.	